

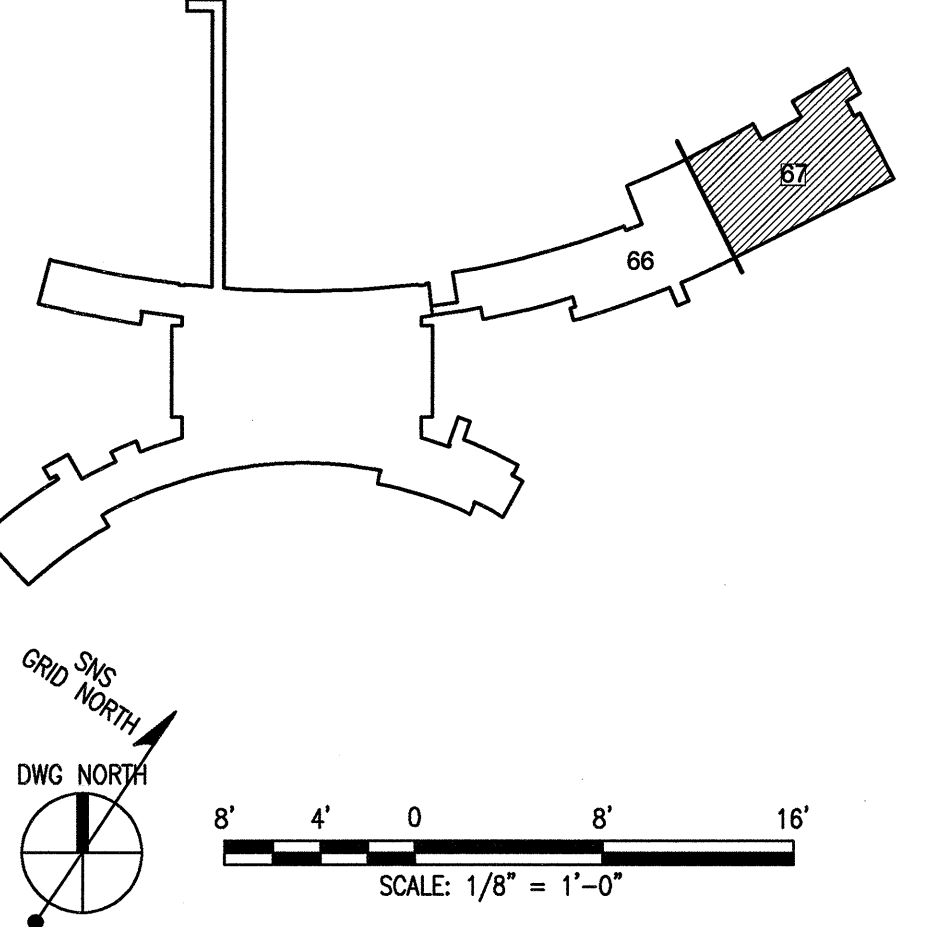


KEYNOTES:

- N001 FEEDER CONDUITS IN CLEAN ROOM AREAS MUST BE ROUTED SUCH THAT THEY DO NOT PASS OVER CLEAN ROOM WORK SPACES. SEE ONE-LINE DIAGRAM FOR SIZES.
- N002 OVERHEAD CONDUITS TO CLEAN POWER AND UPS LOADS.
- N003 NO CONDUITS CAN PASS OVER THE SOUTHERN MOST 12FT OF FIRE RISER RM B1-7-39. SPACE IS RESERVED FOR SPRINKLER PIPES.
- N004 CONDUITS TO ROOF-MTD EQUIPMENT SHALL BE INSTALLED ON TRAPEZE MOUNTED BELOW ROOF TRASS.
- N005 CONDUITS FOR PANELS, LTG & RECEPTABLES SHALL BE INSTALLED ON TRAPEZE, ABOVE ALL MECHANICAL UTILITIES. MAINTAIN MIN CLEARANCE OF 13'-6" AFF. SEAL ALL WALL PENETRATIONS.
- N006 PROVIDE 120V TO DOOR CARD READER FROM CN-2PPC-1 CKT SEE DETAILS 10, 11 AND 12 OF SHEET E4.11.42.
- N007 CONDUITS WHICH MUST PASS THROUGH CHEM/HAZ ROOMS SHALL BE ROUTED TO SOUTH, TO ALLOW 10FT CONDUIT LENGTHS WITH JOINT CONNECTIONS IN VESTIBULE.
- N008 PROVIDE 120V TO MOTOR-OPERATED DOORS.
- N009 RECEPTABLES NORTH OF COL M.1 ARE CIRCUTED WITH #10 AWG WIRE FROM PANEL CN-2PPC-2.
- N010 5-20 INDICATES DEVICE FED FROM PNL CN-1PPC-5 CKT 20.
- N011 IN CR AREAS ALL POWER/COMM DEVICE LOCATIONS MUST BE COORDINATED WITH USER'S EQPT LOCATIONS THROUGH THE CM.
- N012 PROVIDE 12"W X 24"H X 6"D JC ON TOP OF INDICATED PANELS. ROUTE ALL BRANCH CONDUCTORS THROUGH JB. (FOR USE IN DETECTING NEUTRAL TO GROUND CURRENT LEAKAGE.)
- N013 AT EACH UNIT HENTER INSTALL VENDOR-FURNISHED TSTAT. SEE DET 6/E4.11.43.
- N014 RECEPTABLE IS RESERVED FOR PUMP SKID INDICATED.
- N015 PROVIDE 120V TO ALARM ON DOOR PANIC BAR.
- N016 PROVIDE 120V EMERG POWER FROM CN-2PPC-1, CKT #9 TO JB IN RM B1-7-2. HARDWARE FROM JB TO EACH OF 5 DOCS PROVIDED BY MECH. SEE DWG H2.B1.67.
- N017 PROVIDE 120V EMERG POWER FROM CN-2PPC-1, CKTS #10, 12 TO CONTROL CONSOLE PROVIDED BY MECH IN ROOM B1-7-11. SEE DWG H2.B1.67.

CLEAN ROOM EMI NOTES:

- CR001 THE NOTES BELOW APPLY ONLY TO THE FOLLOWING AREAS, WHICH HAVE BEEN DEFINED AS EM-SENSITIVE:  
EBAM LITHO (CN-B1-7-30)  
SEM EDX (CN-B1-7-33)  
TEM/STEM (CN-B1-7-34)  
SEM MET (CN-B1-7-35)  
SEM FIB (CN-B1-7-36)
- COMPLY WITH ALL NOTES BELOW WHEN UTILITIES APPROACH WITHIN 25 FEET OF WALLS SURROUNDING THE ABOVE LISTED AREAS.
- 1. A NEUTRAL SHALL BE RUN WITH ALL PHASE CONDUCTORS. (DOES NOT APPLY TO 3-PHASE MOTOR LOADS.)
- 2. THE PHASE, NEUTRAL AND GROUND CONDUCTORS SHALL BE TWISTED TOGETHER EVERY 36" AND WIRE TIED ON 24" CENTERS INSIDE THE CONDUITS.
- 3. A SEPARATE GROUND CONDUCTOR SHALL BE RUN IN EACH CONDUIT.
- 4. A DIELECTRIC COUPLING IS REQUIRED IN ALL CONDUITS LOCATED WITHIN 25' OF EM-DESIGNATED ROOMS.



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UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, a Oak Ridge, Tennessee			
PROJECT NAME: <b>CENTER FOR NANOPHASE MATERIALS SCIENCES ELECTRICAL POWER PLAN LEVEL B1 - SECTOR 67</b>					
1	48	49	50	51	BLDG
3	E	X	X	8	8610
51	52	53	A/E	DRAWING NUMBER:	E4.B1.67
NC	NA				REV 0

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REV	DATE	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0	-	CERTIFIED FOR CONSTRUCTION 12/9/02	CR	VGS											108009		RZ	AW	BNJ	AK	IM	DM	-	BNJ	-	TW
1	12/9/02	10/3/02																								



DSN	C. RUNNO	12/09/02
DRW	L. MAKOVSKY	12/09/02
CHK	V. STEFFEN	12/09/02
DEPT		
PE	CLG	12/9/02
PJ	JS	12/9/02
REQ	2841080	12/9/02

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